IN THE CLAIMS:

Please amend claim1 as shown below, in which deleted terms are shown with strikethrough and added terms are shown with underscoring. Also, please add new claims 3-16 as shown below.

1. (Currently amended) A light scattering type particle detector in which particles contained in fluid are irradiated with light, and light scattered by the particles is received so as to detect the particles, wherein the light is obtained by converting the wavelength of light emitted from a light ~~source~~ –emitting diode or a semiconductor laser with a nonlinear optical crystal.

2. (Original) The light scattering type particle detector according to claim 1, wherein the light is reciprocated between a reflecting film of the nonlinear optical crystal and a mirror, or between a mirror and a mirror, which oppose one another with the particle detecting area interposed therebetween.

3. (New) The light scattering type particle detector according to claim 1, wherein the light is emitted from a light-emitting diode.

4. (New) The light scattering type particle detector according to claim 1, wherein the wavelength of the light is converted to a smaller wavelength with the nonlinear optical crystal.

5. (New) The light scattering type particle detector according to claim 1, wherein the wavelength of the light emitted from a light–emitting diode or a semiconductor laser is converted

to a harmonic thereof with the nonlinear optical crystal.

6. (New) The light scattering type particle detector according to claim 1, wherein the wavelength of the light emitted from a light–emitting diode or a semiconductor laser is converted to a second harmonic thereof with the nonlinear optical crystal.

7. (New) The light scattering type particle detector according to claim 2, wherein the light is reciprocated between the reflecting film of the nonlinear optical crystal and the mirror, and one of one of the reflecting film of the nonlinear optical crystal and the mirror selectively reflects only the converted wavelength of the light.

8. (New) The light scattering type particle detector according to claim 1, includes a condensing lens system which condenses the light emitted from the light–emitting diode or the semiconductor laser before the light is introduced into the nonlinear optical crystal.

9. (New) A light scattering type particle detector comprising:

a light source including one of a light–emitting diode or a semiconductor laser;

a condensing lens system which condenses the light emitted from the light source;

a nonlinear optical crystal which receives the condensed light and converts a wavelength thereof;

a flowpath through which a fluid containing particles flows, an area of the flowpath being irradiated with the converted wavelength light;

a light sensor which detects light scattered by the particles;

a first reflector which selectively reflects only the converted wavelength light; and

a second reflector which reflects all light; wherein

the first and second reflectors and the flowpath are arranged such that the converted wavelength light is as reciprocally reflected between the reflectors and passes through the area of the flowpath.

10. (New) The light scattering type particle detector according to claim 9, wherein the first and second reflectors are a reflecting film of the nonlinear optical crystal and a mirror, respectively.

11. (New) The light scattering type particle detector according to claim 9, wherein the first and second reflectors are a dichroic mirror and another mirror, respectively.

12. (New) The light scattering type particle detector according to claim 9, wherein the light source includes a light-emitting diode.

13. (New) The light scattering type particle detector according to claim 9, wherein the wavelength of the light is converted to a smaller wavelength with the nonlinear optical crystal.

14. (New) The light scattering type particle detector according to claim 9, wherein the wavelength of the light emitted from a light–emitting diode or a semiconductor laser is converted

to a harmonic thereof with the nonlinear optical crystal.

15. (New) The light scattering type particle detector according to claim 9, wherein the wavelength of the light emitted from a light–emitting diode or a semiconductor laser is converted to a second harmonic thereof with the nonlinear optical crystal.

16. (New) The light scattering type particle detector according to claim 10, wherein one of the reflecting film of the nonlinear optical crystal and the mirror selectively reflects only the converted wavelength of the light.